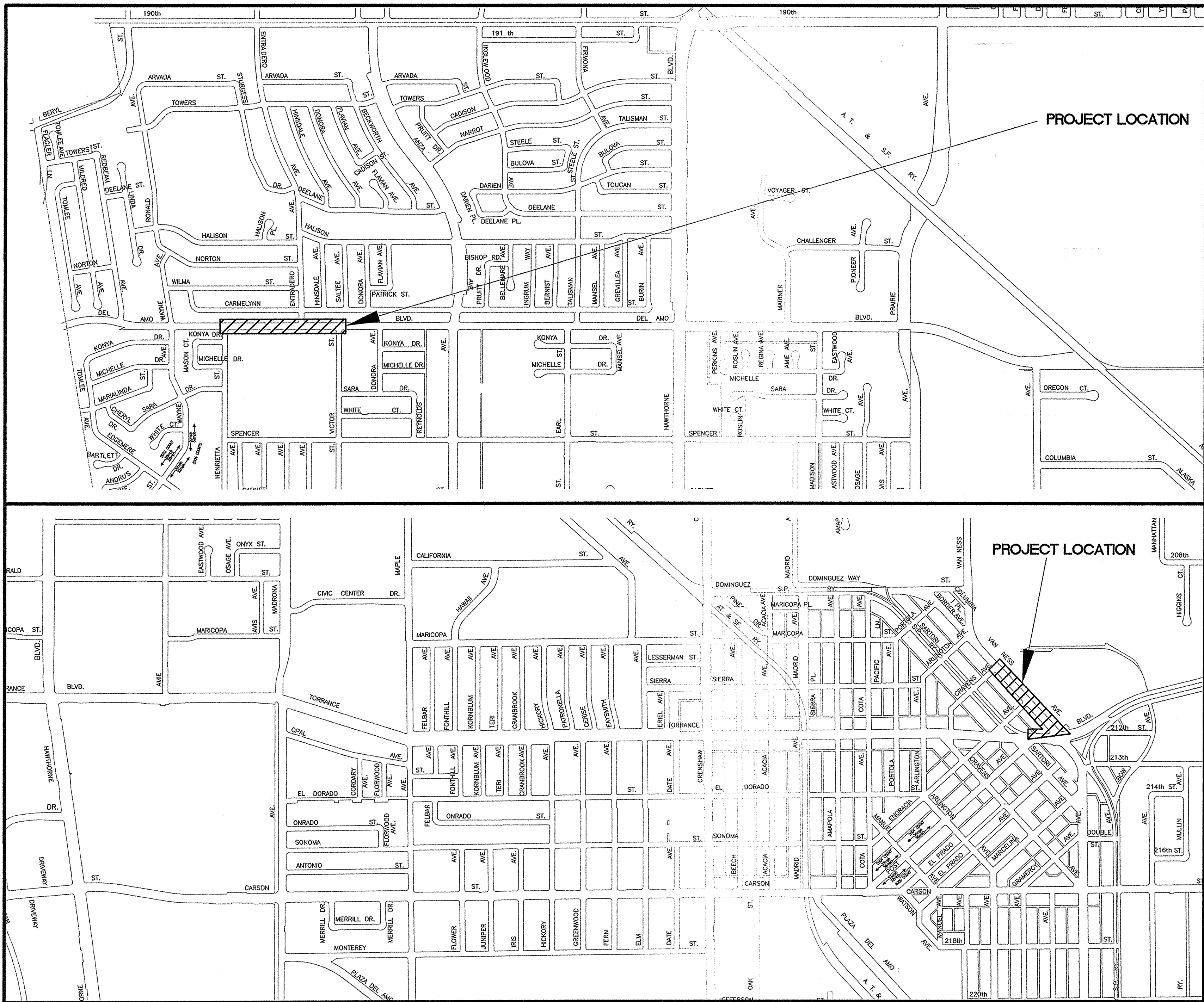


CITY OF TORRANCE
STREET LIGHTING PLANS FOR
VAN NESS BOULEVARD FROM TORRANCE BOULEVARD TO CRAVENS AVENUE
AND
DEL AMO BOULEVARD FROM VICTOR STREET TO HENRIETTA STREET



PROJECT LOCATION MAPS

INDEX OF SHEETS:

Sheet No.	Description
1 of 3	TITLE SHEET STREET LIGHTING PLANS FOR VAN NESS BOULEVARD FROM TORRANCE BOULEVARD TO CRAVENS AVENUE AND DEL AMO BOULEVARD FROM VICTOR STREET TO HENRIETTA STREET
2 of 3	STREET LIGHTING PLAN VAN NESS BOULEVARD FROM TORRANCE BOULEVARD TO CRAVENS AVENUE
3 of 3	STREET LIGHTING PLAN DEL AMO BOULEVARD FROM VICTOR STREET TO HENRIETTA STREET



TRAFFIC No. 1575
DATE: 3-9-2012
AGA Job No. : 140-034
AGA File Name: ts
Print Date : 3/9/2012
Last Revision : 3/9/2012

ALBERT GROVER & ASSOCIATES
TRANSPORTATION CONSULTING ENGINEERS
211 E. Imperial Hwy, Suite 200 Fullerton, CA 92635

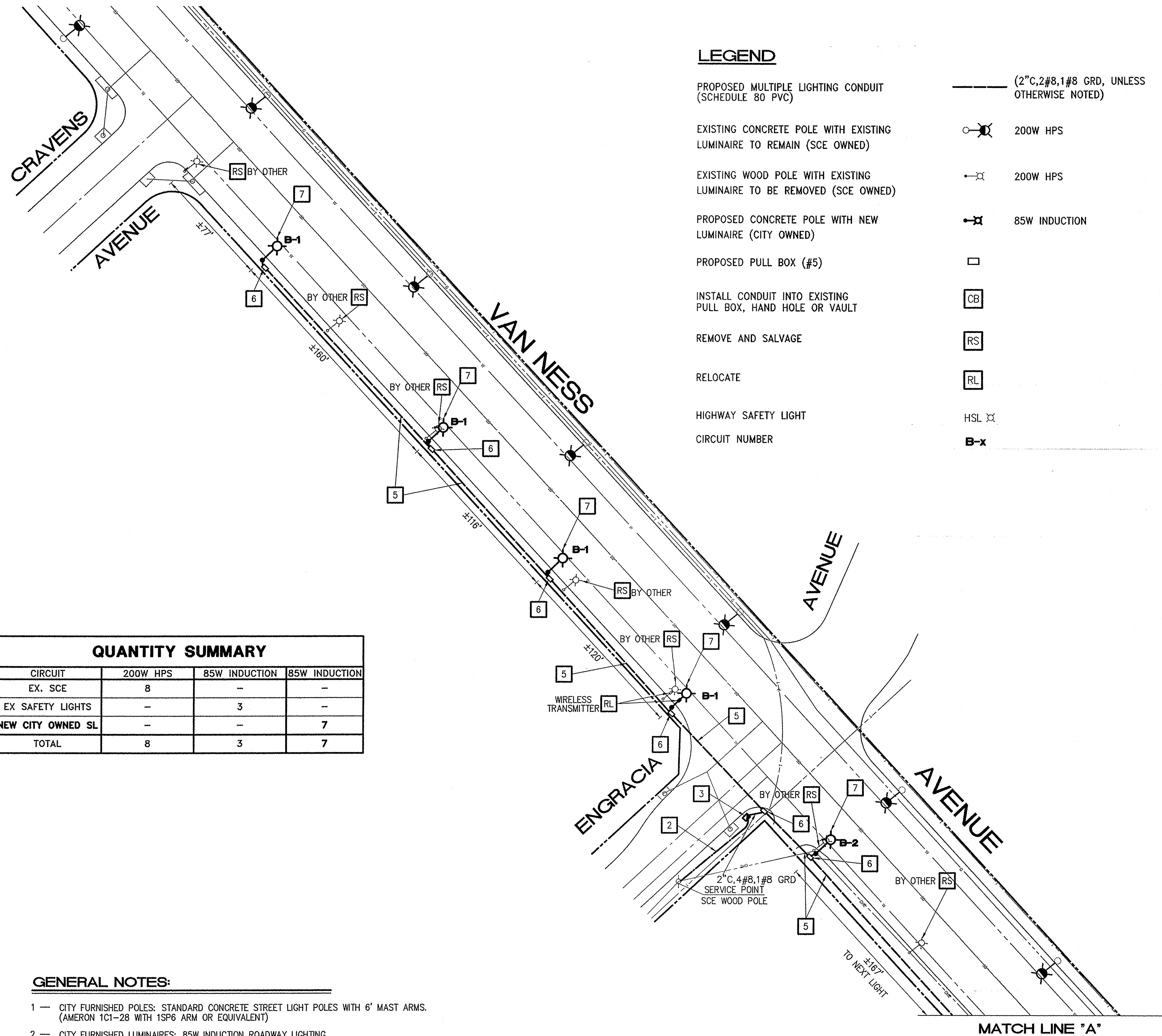
STREET LIGHTING TITLE SHEET

DATE	DESCRIPTION	BY	CHECKED	CITY OF TORRANCE PUBLIC WORKS DEPARTMENT	
				DRAWN: CAV	APPROVED:
				DESIGNED: CAV	TOUFIC J. SEMAAN CITY ENGINEER
				RECEIVED BY:	DATE: 3/12/2012
				APPROVED BY:	SCALE: AS SHOWN SHEET 1 OF 3
					PLAN NO. SL2012-001



Know what's below.
Call before you dig.

NOTE: THESE PLANS ACCURATE FOR ELECTRICAL WORK ONLY.



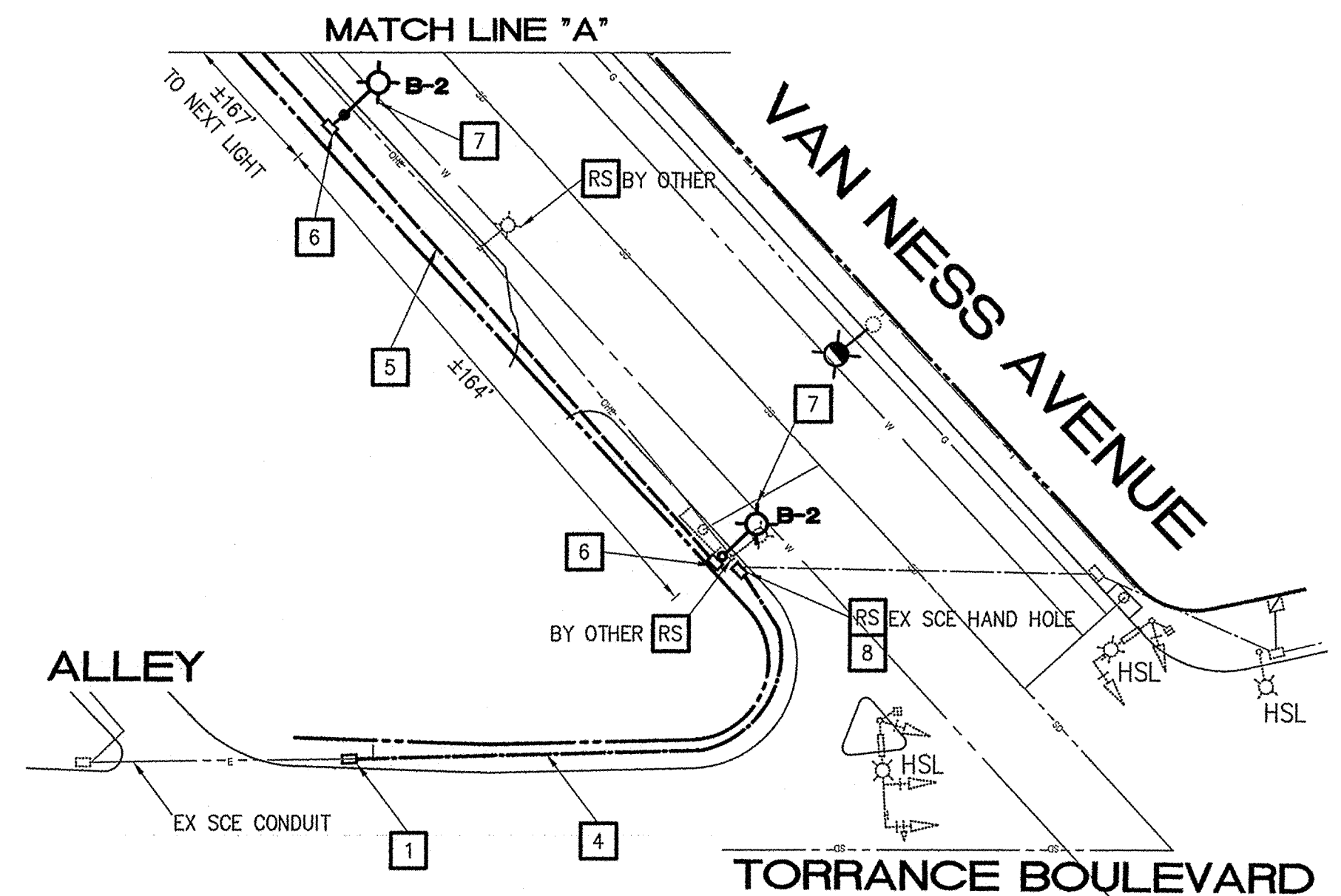
QUANTITY SUMMARY			
CIRCUIT	200W HPS	85W INDUCTION	85W INDUCTION
EX. SCE	8	-	-
EX SAFETY LIGHTS	-	3	-
NEW CITY OWNED SL	-	-	7
TOTAL	8	3	7

GENERAL NOTES:

- 1 — CITY FURNISHED POLES: STANDARD CONCRETE STREET LIGHT POLES WITH 6' MAST ARMS. (AMERON 1C1-28 WITH 1SP6 ARM OR EQUIVALENT)
- 2 — CITY FURNISHED LUMINAIRES: 85W INDUCTION ROADWAY LIGHTING. (GE ROADWAY LIGHTING MODEL NO. MSL84Q1E11FSC3 OR EQUIVALENT)
- 3 — NEW POLE SPACING AS SHOWN.

LEGEND

- PROPOSED MULTIPLE LIGHTING CONDUIT (SCHEDULE 80 PVC)
- EXISTING CONCRETE POLE WITH EXISTING LUMINAIRE TO REMAIN (SCE OWNED)
- EXISTING WOOD POLE WITH EXISTING LUMINAIRE TO BE REMOVED (SCE OWNED)
- PROPOSED CONCRETE POLE WITH NEW LUMINAIRE (CITY OWNED)
- PROPOSED PULL BOX (#5)
- INSTALL CONDUIT INTO EXISTING PULL BOX, HAND HOLE OR VAULT
- REMOVE AND SALVAGE
- RELOCATE
- HIGHWAY SAFETY LIGHT
- CIRCUIT NUMBER
- (2\"C, 2#8, 1#8 GRD, UNLESS OTHERWISE NOTED)
- 200W HPS
- 200W HPS
- 85W INDUCTION
- CB
- RS
- RL
- HSL
- B-x

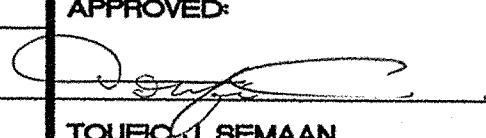


CONSTRUCTION NOTES:

- 1 — FURNISH AND INSTALL HAND HOLE BY INTERCEPTING EXISTING SCE ELECTRICAL CONDUIT PER EDISON CO. REQUIREMENTS. AT LEAST 72 HOURS ADVANCE NOTICE SHALL BE GIVEN TO SOUTHERN CALIFORNIA EDISON COMPANY BY CONTACTING CHAD MINTON AT (310)783-9437 AND RICHARD HALL AT (310)781-6940. EXACT LOCATION OF HAND HOLE SHALL BE DETERMINED BY SCE IN THE FIELD.
- 2 — FURNISH AND INSTALL 3\" CONDUIT AND TYPE H RISER WITH PULL ROPE PER EDISON CO. REQUIREMENTS. AT LEAST 72 HOURS ADVANCE NOTICE SHALL BE GIVEN TO SOUTHERN CALIFORNIA EDISON COMPANY BY CONTACTING CHAD MINTON AT (310)783-9437 AND RICHARD HALL AT (310)781-6940. EXACT LOCATION OF CONDUIT SHALL BE DETERMINED BY SCE IN THE FIELD.
- 3 — INSTALL CITY FURNISHED 120/240V TYPE III-BF LIGHTING SERVICE ENCLOSURE WITH TYPE V PEC, CONTACTOR (DP) AND TEST SWITCH AND 2-20 AMP LIGHTING BREAKERS. STREET LIGHTING SHALL BE 120V METERED. MAKE ALL NECESSARY CONNECTIONS FOR A FULLY OPERATION STREET LIGHTING SYSTEM.
- 4 — FURNISH AND INSTALL 3\" CONDUIT WITH PULL ROPE PER EDISON CO. REQUIREMENTS. AT LEAST 72 HOURS ADVANCE NOTICE SHALL BE GIVEN TO SOUTHERN CALIFORNIA EDISON COMPANY BY CONTACTING CHAD MINTON AT (310)783-9437 AND RICHARD HALL AT (310)781-6940. EXACT LOCATION OF CONDUIT SHALL BE DETERMINED BY SCE IN THE FIELD.
- 5 — FURNISH AND INSTALL 2\" CONDUIT WITH 2#8 AND 1#8 GROUND CONDUCTORS.
- 6 — FURNISH AND INSTALL #5 PULL BOX.
- 7 — INSTALL CITY FURNISHED AMERON 1C1-28 CONCRETE POLE WITH 1SP6 ARM AND INDUCTION LUMINAIRE. MAKE ALL CONNECTIONS NECESSARY FOR A FULLY OPERATIONAL STREET LIGHTING SYSTEM.
- 8 — FURNISH AND INSTALL SCE HANDHOLE PER SCE REQUIREMENTS.

STREET LIGHTING PLAN
VAN NESS AVENUE FROM
CRAVENS AVE. TO TORRANCE BLVD.

CITY OF TORRANCE PUBLIC WORKS DEPARTMENT

DRAWN: CAV	APPROVED: 
DESIGNED: CAV	DATE: 3/12/2012
RECEIVED BY: _____	TOUFIC J. BEMAAN CITY ENGINEER
APPROVED BY: _____	SCALE: AS SHOWN SHEET 2 OF 3
	PLAN NO. SL2012-001



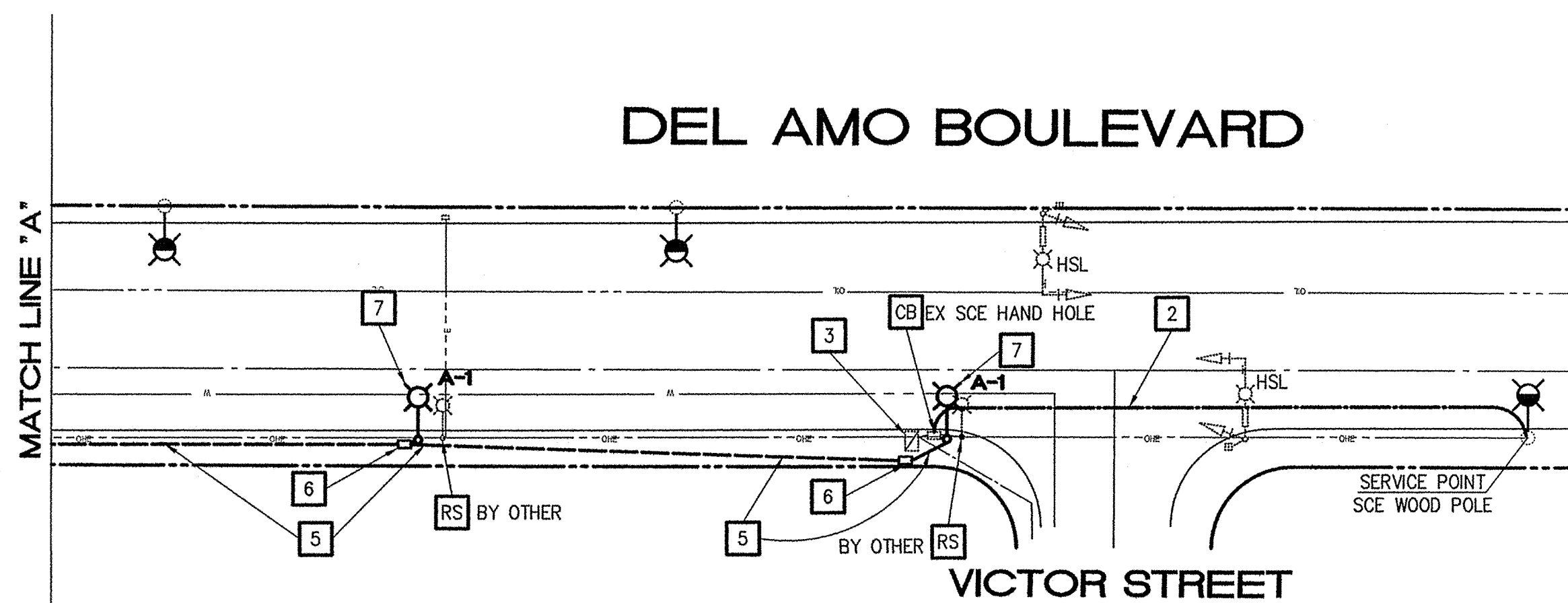
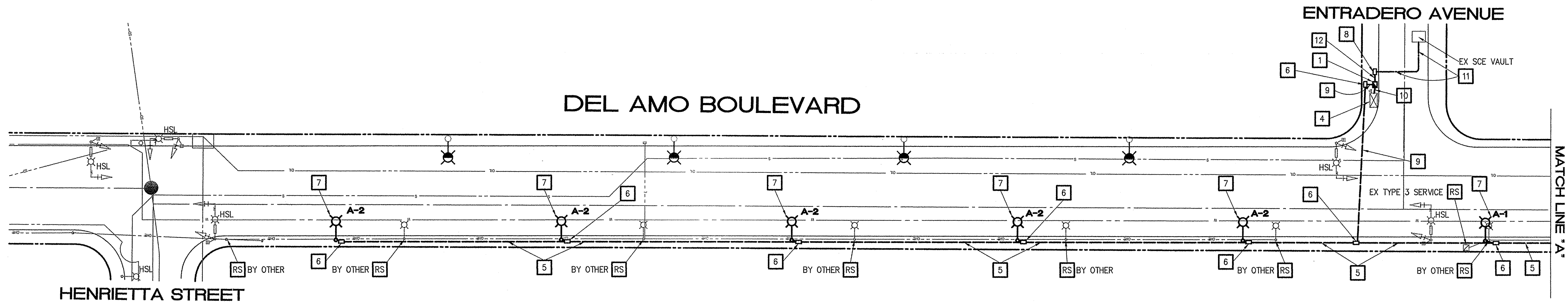
TRAFFIC No. 1575
DATE: 3-9-2012
AGA Job No.: 140-034
AGA File Name: VanNessSL
Print Date: 3/9/2012
Last Revision: 3/9/2012

ALBERT J. BEMAAN & ASSOCIATES
TRANSPORTATION CONSULTING ENGINEERS
211 E. Imperial Hwy., Suite 208 Fullerton, CA 92835
(714) 992-2090
FAX: 992-2083

SCALE: 1" = 40'

NOTE: THIS PLAN ACCURATE FOR ELECTRICAL WORK ONLY.





CONSTRUCTION NOTES:

- 1 - INSTALL CITY FURNISHED 120/240V TYPE III-CF SIGNAL AND LIGHTING SERVICE ENCLOSURE WITH 2 TYPE V PEC, CONTACTOR (CP) AND TEST SWITCH. METER 1 SHALL HAVE 1-40 AMP SIGNAL BREAKER, 1-30 AMP SAFETY LIGHTING BREAKER AND 1-15 AMP ISNS BREAKER. SIGNAL AND ISNS CIRCUITS SHALL BE 120V METERED AND SAFETY LIGHTING SHALL BE 120V UNMETERED. METER 2 SHALL HAVE 2-20 AMP STREET LIGHTING BREAKERS. STREET LIGHTING SHALL BE 120V METERED. MAKE ALL NECESSARY CONNECTIONS FOR A FULLY OPERATION STREET LIGHTING SYSTEM AND CONNECTIONS TO RESTORE POWER TO THE TRAFFIC SIGNAL FOR INTENDED OPERATION.
- 2 - FURNISH AND INSTALL 3" CONDUIT AND TYPE H RISER WITH PULL ROPE PER EDISON CO. REQUIREMENTS. AT LEAST 72 HOURS ADVANCE NOTICE SHALL BE GIVEN TO SOUTHERN CALIFORNIA EDISON COMPANY BY CONTACTING CHAD MINTON AT (310)783-9437 AND RICHARD HALL AT (310)781-6940. EXACT LOCATION OF CONDUIT SHALL BE DETERMINED BY SCE IN THE FIELD.
- 3 - REUSE EXISTING 120/240V TYPE III-CF SIGNAL AND LIGHTING SERVICE ENCLOSURE. COORDINATE WITH SCE TO TRANSFER NEW ELECTRICAL POWER CONNECTION POINT BY CONTACTING CHAD MINTON AT (310)783-9437 AND RICHARD HALL AT (310)781-6940 AT LEAST 72 HOURS IN ADVANCE OF ANY WORK.
- 4 - TRANSFER NEW CONNECTION POINT FOR ELECTRICAL POWER BY COORDINATING WITH SCE BY CONTACTING CHAD MINTON AT (310)783-9437 AND RICHARD HALL AT (310)781-6940 AT LEAST 72 HOURS IN ADVANCE OF ANY WORK. CONNECT ALL NEW POWER CONNECTIONS TO EXISTING TRAFFIC SIGNAL CONTROLLER ASSEMBLY TO FACILITATE EXISTING OPERATION. DISCONNECT EXISTING POWER AND REMOVE WIRES FROM EXISTING CONDUIT.
- 5 - FURNISH AND INSTALL 2" CONDUIT WITH 2#8 AND 1#8 GROUND CONDUCTORS.
- 6 - FURNISH AND INSTALL #5 PULL BOX.
- 7 - INSTALL CITY FURNISHED AMERON 1C1-28 CONCRETE POLE WITH 1SP6 ARM AND INDUCTION LUMINAIRE. MAKE ALL CONNECTIONS NECESSARY FOR A FULLY OPERATIONAL STREET LIGHTING SYSTEM.
- 8 - FURNISH AND INSTALL SCE HANDHOLE PER SCE REQUIREMENTS.
- 9 - FURNISH AND INSTALL 2" CONDUIT WITH 4#8 AND 1#8 GROUND CONDUCTORS.
- 10 - FURNISH AND INSTALL 2" CONDUIT WITH 2#8, 2#10, 2#12 AND 1#8 GROUND CONDUCTORS.
- 11 - FURNISH AND INSTALL 3" CONDUIT WITH PULL ROPE AND CONNECT TO EXISTING SCE VAULT PER EDISON CO. REQUIREMENTS. AT LEAST 72 HOURS ADVANCE NOTICE SHALL BE GIVEN TO SOUTHERN CALIFORNIA EDISON COMPANY BY CONTACTING CHAD MINTON AT (310)783-9437 AND RICHARD HALL AT (310)781-6940. EXACT LOCATION OF CONDUIT SHALL BE DETERMINED BY SCE IN THE FIELD.
- 12 - FURNISH AND INSTALL 3" CONDUIT WITH PULL ROPE PER SCE REQUIREMENTS.

LEGEND

PROPOSED MULTIPLE LIGHTING CONDUIT (SCHEDULE 80 PVC)	— (2"C,2#8,1#8 GRD, UNLESS OTHERWISE NOTED)
EXISTING CONCRETE OR WOOD POLE WITH EXISTING LUMINAIRE TO REMAIN (SCE OWNED)	○ 200W HPS
EXISTING WOOD POLE WITH EXISTING LUMINAIRE TO BE REMOVED (SCE OWNED)	⊗ 200W HPS
PROPOSED CONCRETE POLE WITH NEW LUMINAIRE (CITY OWNED)	⊗ 85W INDUCTION
PROPOSED PULL BOX (#5)	□
INSTALL CONDUIT INTO EXISTING PULL BOX, HAND HOLE OR VAULT	CB
REMOVE AND SALVAGE	RS
HIGHWAY SAFETY LIGHT	HSL ⊗
CIRCUIT NUMBER	A-x

GENERAL NOTES:

- 1 - CITY FURNISHED POLES: STANDARD CONCRETE STREET LIGHT POLES WITH 6' MAST ARMS. (AMERON 1C1-28 WITH 1SP6 ARM OR EQUIVALENT)
- 2 - CITY FURNISHED LUMINAIRES: 85W INDUCTION ROADWAY LIGHTING. (GE ROADWAY LIGHTING MODEL NO. MSCL84Q1E11FSC3 OR EQUIVALENT)
- 3 - NEW POLES TO BE SPACED ±160' AND STAGGERED WITH EXISTING SCE STREET LIGHT POLES LOCATED ON THE NORTH SIDE OF DEL AMO BLVD.

QUANTITY SUMMARY

CIRCUIT	200W HPS	85W INDUCTION	85W INDUCTION
EX. SCE	7	-	-
EX SAFETY LIGHTS	-	8	-
NEW CITY OWNED SL	-	-	8
TOTAL	7	8	8

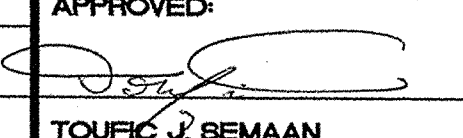
STREET LIGHTING PLAN
DEL AMO BOULEVARD FROM
HENRIETTA ST. TO VICTOR ST.

SCALE: 1"= 40'



TRAFFIC No. 1575
DATE: 3-9-2012
AGA Job No. : 140-034
AGA File Name: DelAmoSL-Ind Rev
Print Date : 3/9/2012
Last Revision : 3/9/2012

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FAX 992-2855

DATE	DESCRIPTION	BY	CHECKED	CITY OF TORRANCE PUBLIC WORKS DEPARTMENT	
				DRAWN: CAV	APPROVED:  3/12/2012
				DESIGNED: CAV	TOURIC J. BERMAN CITY ENGINEER
				RECEIVED BY:	DATE
				APPROVED BY:	SCALE: AS SHOWN SHEET 3 OF 3
					PLAN NO. SL2012-001



Know what's below.
Call before you dig.

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